



**Parsons
Brinckerhoff**

5801 Osuna Road NE
Suite 200
Albuquerque, NM 87109
505-881-5357
Fax: 505-881-7602

April 7, 1999

Fred Aguirre, Drainage Review
Development Review Board
City of Albuquerque, Planning Department
Plaza Del Sol Building, 2nd Floor
Albuquerque, NM

Re: Vista Del Norte, DRB 98-78

Mr. Aguirre,

At the request of Diane Hoelzer I am writing you to let you know we have coordinated in regards to the storm drain outfall for Tract I, Vista Del Norte Subdivision. I have provided her with a revised hydraulic grade line worksheet showing the re-routing of the entire flow from Tract I to a single outfall on Vista Monte Drive. The stub was included in you planset and is currently under construction. The analysis shows that the flows can be accommodated in the downstream system. The storm drain system that the flows were removed from will not have any changes in pipe size from the original design.

If you have any questions regarding this submittal please contact me at 881-5357.
Thank you for your time.

Sincerely,

Elias E. Archuleta, E.I.

Cc: File
Diane Hoelzer, P.E., D. Mark Goodwin & Assoc.
Jerry Sundt, Sundt Corp.
Ron Brown, Brown and Assoc.



**Parsons
Brinckerhoff**

5801 Osuna Road NE
Suite 200
Albuquerque, NM 87109
505-881-5357
Fax: 505-881-7602

April 21, 1999

Fred Aguirre, Drainage Review
Development Review Board
City of Albuquerque, Planning Department
Plaza Del Sol Building, 2nd Floor
Albuquerque, NM

Re: Vista Del Norte, DRB 98-78

Mr. Aguirre,

Attached please find the revised Hydraulic Grade Line calculation sheets and a display showing the manhole locations and numbers in relation to the properties being developed by Mark Goodwin and Associates. The outfall for Tract I, Los Prados Del Norte Subdivision, has been relocated from manhole #19 to manhole #32, see display. The other change reflected in the revision is the addition of three additional stubs to Tract W, Villa Del Valle Subdivision. Originally, one stub collected flows from Tract W. At the request of Mark Goodwin's office we added stubs at locations that worked for their design and sized the stubs to handle their flows. No additional flows were added nor removed from this segment. These changes will be reflected in a revised grading and drainage submittal to your office.

If you have any questions regarding this submittal please contact Elias Archuleta or me at 881-5357. Thank you for your time.

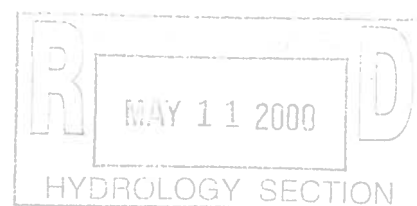
Sincerely,

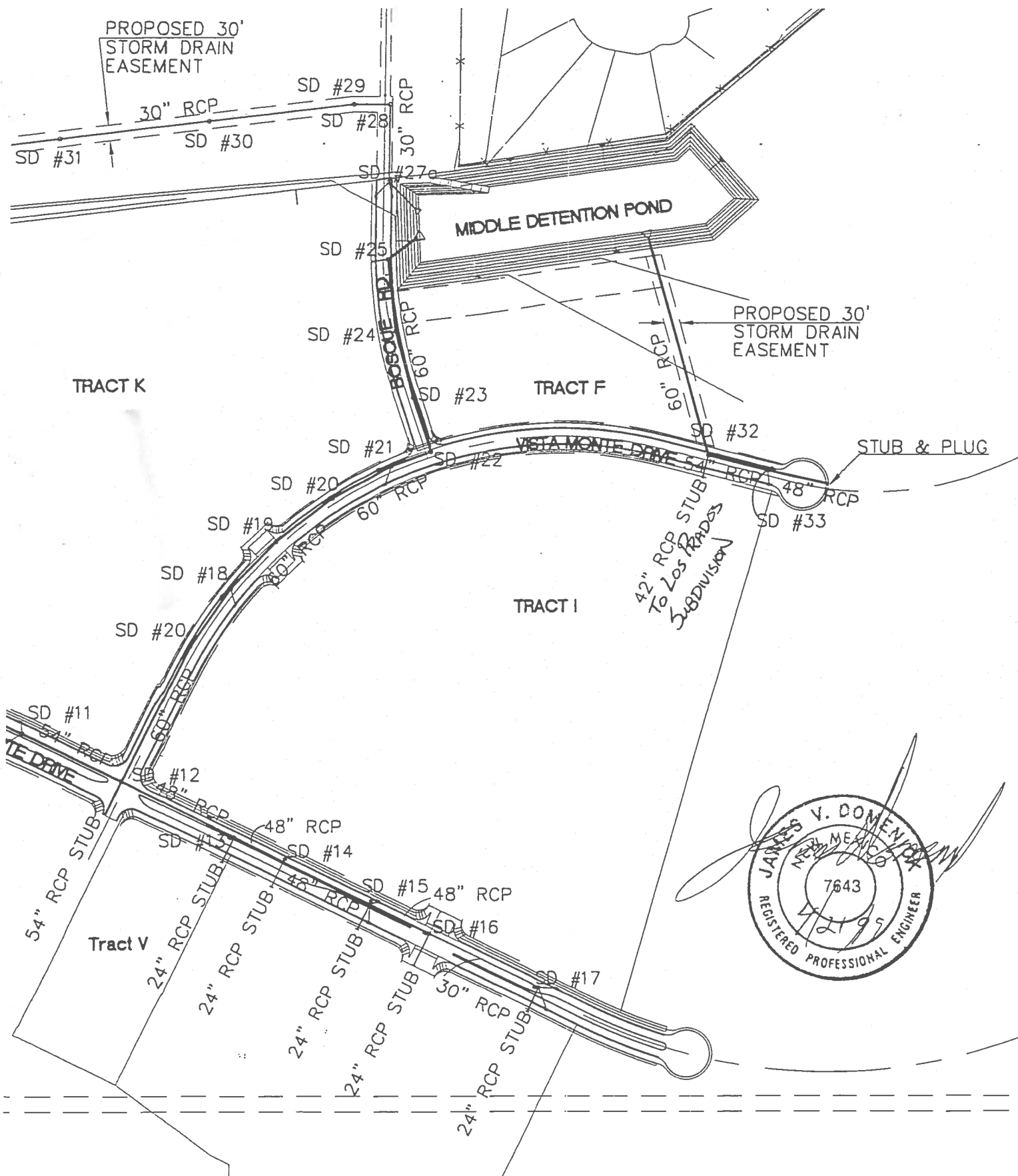
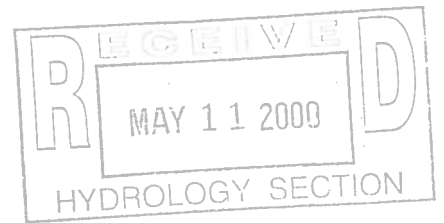
James Domenick, P.E.



Cc: File
Diane Hoelzer, P.E., D. Mark Goodwin & Assoc.
Jerry Sundt, Sundt Corp.
Ron Brown, Brown and Assoc.

Over a Century of
Engineering Excellence

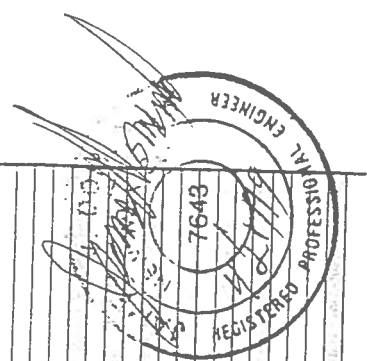




SUMMARY OF HYDRAULIC CALCULATIONS CLOSED CONDUIT 2/22/99

11 = 0.013

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
STATION	STRUCT	D	Q	A	V	K	SI	L	DELTA	Q	ANGLE	LOSS	hf	h _{avg}	h _l	h _{fric}	h _{fric}	SUM	E G	hw	H.G	GROUND ELEV	COMMENT
SOUTH	OUTFALL																						
	MH	48.00	243	12.57	19.34	1437.2	0.0296	100				2.06						0.00	5026.81	5.81	5021.00	5040.00	
	MH/B/J	48.00	243	12.57	19.34	1437.2	0.0296	570	0			16.29			0.29	0.00		0.26	5029.67	5.81	5021.00	5040.00	
	MH/B/J	48.00	159	12.57	12.65	1437.2	0.0122	395	90	84		4.83			0.12	0.00		16.29	5046.25	5.81	5024.15	5045.22	
	MH	42.00	145	9.62	15.07	1006.6	0.0208	105				2.18			0.18	0.21		4.83	5051.71	2.49	5044.39	5054.47	18+48.77
	MH/B/J	42.00	46	9.62	4.78	1006.6	0.0021	400	99			0.84			0.02	0.00		2.18	5054.27	3.53	5048.56	5055.16	14+55.85
	MH/B	36.00	46	7.07	6.51	667.28	0.0048	450				2.14			0.03	0.06		0.84	5055.12	0.35	5054.77	5055.44	13+50.00
	INLET	36.00	46	7.07	6.51	667.28	0.0040	108	0			0.51			0.03	0.00		2.14	5057.35	0.66	5056.70	5057.41	9+51.05
	TIE-IN																	0.51	5057.90	0.66	5056.73	5059.65	5+01.85
	MH/VB	48.00	110	12.57	8.75	1437.2	0.0059	108	110			0.63			0.06	0.24		-0.13	5057.77	0.00	5057.77	5061.00	
	OUTFALL	30.00	86	4.91	17.52	410.33	0.0439	550										0.30	5045.87	1.19	5044.68	5050.00	
	INLET	30.00	86	4.91	17.52	410.33	0.0439	0										0.63	5046.51	1.19	5045.32	5048.00	
MIDDLE BOSQUE RD	OUTFALL																	0.00	5046.51	0.00	5046.51	5048.00	
	MH/J #25	60.00	246	19.64	12.53	2606	0.0089	70				0.62			0.12	0.00		0.00	5028.94	2.44	5026.50	5032.00	
	MH/J #24	60.00	246	19.64	12.53	2606	0.0089	143				1.27			0.12	0.00		0.62	5029.56	2.44	5027.12	5032.00	
	MH #23	60.00	246	19.64	12.53	2606	0.0089	135				1.20			0.00	0.12	0.00	1.27	5030.96	2.44	5028.52	5033.09	
	MH #22	60.00	246	19.64	12.53	2606	0.0089	110				0.98			0.00	0.12	0.00	0.12	5031.00	2.44	5028.64	5036.23	
	MH #19	60.00	246	19.64	12.53	2606	0.0089	350	90			3.12			0.49	0.12	0.00	1.20	5032.40	2.44	5029.84	5037.19	
	MH #12	60.00	211	19.64	10.75	2606	0.0066	560				3.67			0.00	0.12	0.00	0.98	5033.36	2.44	5030.95	5037.88	
		60.00	211	19.64	10.75	2606	0.0066	0				0.00			0.00	0.09	0.00	3.12	5037.11	2.44	5034.67	5037.88	
VISTA DEL NORTE DRIVE																		0.09	5037.20	1.79	5035.41	5047.60	
MH #12		48.00	60	12.57	4.77	1437.2	0.0017	243				0.42			0.00	0.00		3.67	5040.87	1.79	5039.08	5047.60	
MH/J #13		48.00	49	12.57	3.90	1437.2	0.0012	108				0.13			0.00	0.00		0.00	5040.96	1.79	5039.17	5047.60	
MH/J #14		48.00	41.5	12.57	3.30	1437.2	0.0008	180				0.16			0.01	0.00		0.01	5040.08	0.24	5039.72	5046.25	
MH #15		48.00	34	12.57	2.71	1437.2	0.0006	130				0.07			0.00	0.01		0.16	5040.25	0.17	5039.92	5044.33	
MH #16		30.00	19	4.91	3.87	410.33	0.0021	239				0.51			0.00	0.01		0.01	5040.28	0.11	5040.14	5044.03	
MH #17		24.00	19	3.14	6.05	226.29	0.0070	0				0.00			0.03	0.07		0.07	5040.33	0.23	5040.13	5042.88	
VISTA DEL NORTE DRIVE																		0.10	5040.88	0.57	5040.40	5042.88	
MH #12		54.00	152	15.90	9.56	1967.6	0.0060	215				1.28						0.00	5040.97	1.42	5039.17	5047.60	
																		0.00	5041.87	1.42	5040.45		

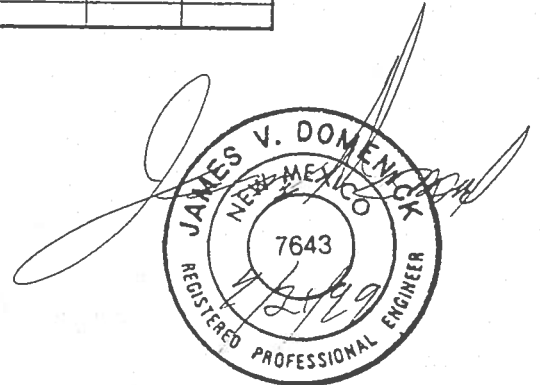


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A circular professional engineer seal. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER". In the center, the number "7643" is printed. A large, stylized signature is written across the seal, overlapping both the inner circle and the outer ring.

STORM SEWER LAYOUT
VISTA DEL NORTE
HYDRAULIC GRADE LINE ANALYSIS

#	GROUND ELEV.	HGL (FT)	PIPE DIAM. (IN)	FLOW (CFS)	REQUIRED INVERT	PIPE LENGTH (FT)	CALCULATED SLOPE (%)	SLOPE USED (%)	PIPE INVERT
25	5035.09	5027.25	60.00	246.00	5019.22	143.00	4.90	1.24	5019.22
24	5036.23	5028.64	60.00	246.00	5026.23	135.00	4.59	1.24	5020.99
23	5037.19	5029.97	60.00	246.00	5027.19	110.00	4.80	1.29	5022.67
22	5037.95	5031.56	60.00	246.00	5027.95	350.00	2.07	0.29	5024.09
19	5041.33	5053.93	60.00	211.00	5031.33	560.00	2.17	0.25	5025.08
12	5047.25	5054.56	48.00	56.00	5037.25	243.00	4.97	2.00	5026.50
13	5047.50	5039.72	48.00	49.00	5038.58	108.00	4.84	0.20	5031.36
14	5045.50	5039.92	48.00	41.50	5036.58	188.00	3.14	0.20	5031.68
15	5046.50	5040.14	48.00	34.00	5037.58	130.00	4.18	0.20	5032.15
16	5046.50	5040.13	30.00	19.00	5037.58	239.00	2.80	0.61	5032.51
17	5046.50	5040.40			5039.21				5033.97
12	5047.25	5054.56	48.00	56.00	5037.25	215.00	4.97	4.29	5026.50
11	5048.69	5040.52	54.00	152.00	5039.23	517.00	1.17	0.50	5035.82
10	5051.33	5043.28			5041.87				5038.41





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 28, 2000

Mark Goodwin, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

***RE: Grading and Drainage Certification Plan for Los Prados Del Norte Subdivision
(D16/D8) Submitted for Release of Financial Guarantees, Engineer's Certification
Stamp Dated 4/26/00.***

Dear Mr. Goodwin:

In Fred Aguirre's letter of May 10, 1999 to Diane Hoelzer, it was noted that some of the off-site storm drain pipes were to be upsized due to the development of the Los Prados Del Norte Subdivision. It is not clear whether a change order was ever processed to increase the sizes of the off-site storm drains in the vicinity of this site. Therefore, please provide the documentation to verify that these changes took place.

Although the above referenced plan is adequate to satisfy the Grading and Drainage Certification requirement per the approved Infrastructure List dated May 5, 1999, the supplemental information requested above must be provided prior to release of the SIA or Financial Guarantees for this subdivision.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Terri Martin, DRB-98-241, City Project No. 616081
Ron Brown, Vista Del Norte LLC
File

Sale
office

345 5923

10-31-02

Mark Pogels
797 7057

Doug Huth
890-3766

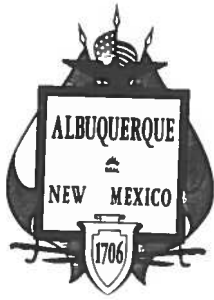
Fay 890-3794

D16-D8

Los Prados Rd
Norte

1005 Casa
Maric Rd
NE





City of Albuquerque

May 18, 2000

Mark Goodwin, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: *Grading and Drainage Certification Plan for Los Prados Del Norte Subdivision (D16/D8) Submitted for Release of Financial Guarantees, Engineer's Certification Stamp Dated 4/26/00.*

Dear Mr. Goodwin:

The above referenced plan is adequate to satisfy the Grading and Drainage Certification requirement per the approved Infrastructure List dated May 5, 1999, for the release of Financial Guarantees for the Los Prados Del Norte Subdivision.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Terri Martin, DRB-98-241, City Project No. 616081
Ron Brown, Vista Del Norte LLC
File



D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmgs@swcp.com

May 11, 2000

Ms. Susan Calongne
Hydrology Division
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: **Grading & Drainage Plan for Los Prados del Norte; D16/D8**

Dear Ms. Calongne:

Attached, please find the following:

- Correspondence of 4/21/99 from Parsons indicating change to 42" would be required.
- Sheet 36a of construction drawings showing 42" stub-out to Los Prados. Please note that this sheet has been stamped and certified as "As-Built".

With this response we hereby request our certification dated 4/26/00 be accepted for release of the SIA.

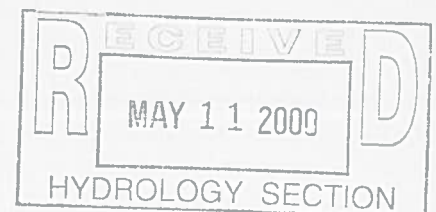
Please call if you have any questions or concerns.

Sincerely,

MARK GOODWIN & ASSOCIATES, PA

Mark Goodwin, PE
President

f:\prados.norrelease.ltr



FORM DRWS: DRAINAGE REPORT / WATER & SEWER AVAILABILITY

THIS FORM IS REQUIRED WITH THE DEVELOPMENT REVIEW BOARD APPLICATION FOR MAJOR SUBDIVISIONS AND SITE DEVELOPMENT PLANS.

PROJECT NAME Los Prados Del Norte

AGIS MAP # D16/E16

LEGAL DESCRIPTION Tract I, Vista Del Norte

DRAINAGE REPORT

A drainage report, as per the Drainage Ordinance, was submitted to the City of Albuquerque Public Works Department, Hydrology Division (2nd floor Plaza del Sol) on _____ [date].

Diane Hoelger

Applicant / Agent

3-5-99

Date

Eileen Rivera

Hydrology Division Representative

3-5-99

Date

X

WATER AND SEWER AVAILABILITY STATEMENT

A Water and Sewer Availability Statement for this project was requested from the City of Albuquerque Utilities Development Division (2nd floor Plaza del Sol) on _____ [date].

Diane Hoelger

Applicant / Agent

3-4-99

Date

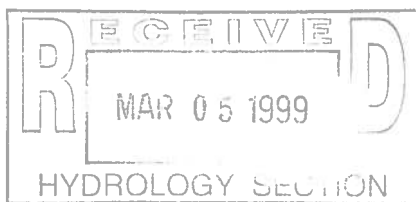
Roger Green

Utilities Division Representative

3-4-99

Date

DRB# 98-241



LETTER OF TRANSMITTAL



D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmgs@swcp.com

TO

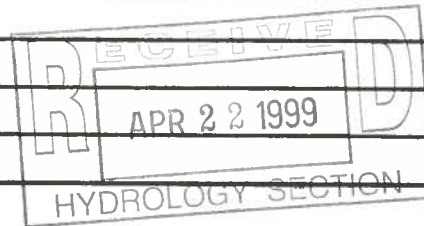
One Stop

DATE	<i>4-22-99</i>	JOB NO.
ATTENTION	<i>Susan Calongne</i>	
RE:	<i>Los Prados Del Norte</i>	

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
<i>1</i>			<i>Supplemental Information</i>



THESE ARE TRANSMITTED as checked below:

- ☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☒ *Per our conversation 4-13-99*
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Here is the Affetto storm drain analysis from Parsons Brinkerhoff. We are on the agenda for Tuesday April 27. Please call me if you need additional information

COPY TO

SIGNED:

Daine Healy

If enclosures are not as noted, kindly notify us at once.

**Parsons
Brinckerhoff**5801 Osuna Road NE
Suite 200
Albuquerque, NM 87109
505-881-5357
Fax: 505-881-7602

April 21, 1999

Fred Aguirre, Drainage Review
Development Review Board
City of Albuquerque, Planning Department
Plaza Del Sol Building, 2nd Floor
Albuquerque, NM

Re: Vista Del Norte, DRB 98-78

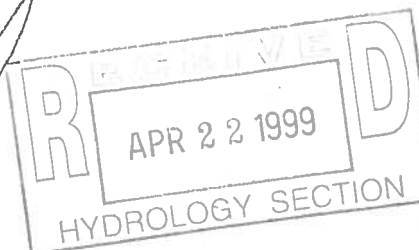
Mr. Aguirre,

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If you have any questions regarding this submittal please contact Elias Archuleta or me at 881-5357. Thank you for your time.

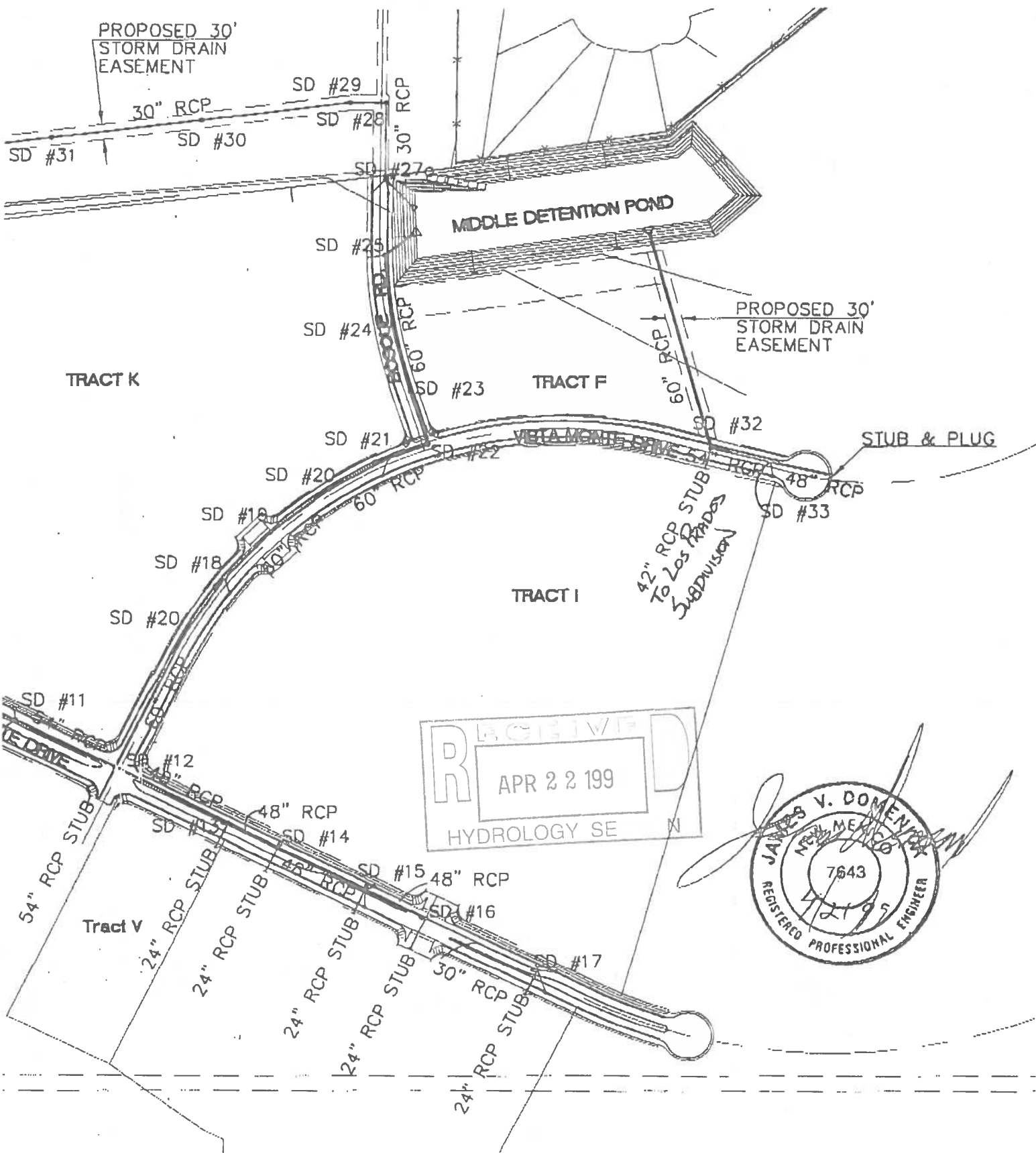
Sincerely,

James Domenick, P.E.



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Jerry Sundt, Sundt Corp.
Ron Brown, Brown and Assoc.

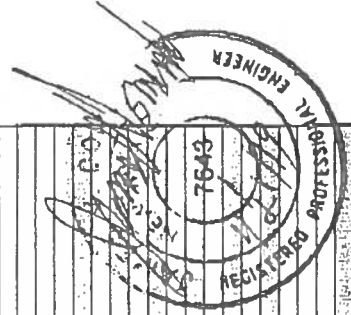
**Over a Century of
Engineering Excellence**



RECEIVED
APR 22 1999
HYDROLOGY SECTION

JAMES V. DOMENICO
REGISTERED PROFESSIONAL ENGINEER
7643
4/21/99

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
STATION	STRUCT	D	Q	A	V	K	SI	L	DELTA	Q	ANGLE	LOSS	FB	AB	FB	AB	FB	AB	E.O.	IN	HG		
SPUH	POND																						
	CUTFALL	48.00	240	12.57	19.34	1437.2	0.0286	100				2.85							0.00	5028.81	5021.00		
																			2.85	5029.67	5021.00		
	MH	48.00	240	12.57	19.34	1437.2	0.0286	570				16.29	0.00	12.67	0.00	0.29	0.00		0.29	5029.80	5024.15		
																			16.29	5040.25	5043.41		
	MH#3	48.00	150	12.57	12.65	1437.2	0.0120	365				4.83	0.00	12.67	0.00	0.12	0.00		0.62	5040.87	5044.36		
																			4.83	5041.71	5043.22		
	MH#4	42.00	145	9.62	15.07	1005.6	0.0206	105				2.18	0.00	11.09	0.00	0.18	0.21		1.03	5052.09	5048.90		
																			2.18	5054.27	5053.74		
	MH	42.00	45	9.62	4.76	1005.6	0.0021	400				0.84	0.00	19.02	0.00	0.02	0.00		0.02	5054.29	5053.63		
																			0.84	5055.12	5054.77		
	MH#5	36.00	46	7.07	6.51	667.26	0.0043	450				2.14	0.00	8.34	0.00	0.03	0.06		0.04	5055.12	5054.56		
																			2.14	5057.35	5058.70		
	MH#6	36.00	46	7.07	6.51	667.26	0.0049	108				0.51	0.00	19.02	0.00	0.03	0.00		0.03	5057.35	5058.73		
																			0.51	5057.80	5057.24		
	INLET												0.00	0.00	0.00	0.00	0.13		0.13	5057.77	5057.77		
	TIE-IN																						
		48.00	110	12.57	8.75	1437.2	0.0059	108				0.63	0.00	6.28	0.00	0.06	0.14		0.30	5045.97	5044.59		
	MH#6	48.00	110	12.57	8.75	1437.2	0.0059	108				0.63	0.00	6.28	0.00	0.06	0.14		0.30	5045.97	5044.59		
	OUTFALL																						
		30.00	86	4.91	17.52	410.33	0.0436	550				24.16	0.00	4.31	0.00	3.24	0.00		0.00	5025.77	5021.00		
	INLET																		24.16	5049.53	5045.16		
																			3.24	5060.16	5045.40		
	MIDDLE POND																						
	OUTFALL																						
		60.00	246	19.64	12.53	2606	0.0089	70				0.67	0.00	18.34	0.00	0.12	0.00		0.02	5028.94	5026.50		
	MH#7#25	60.00	246	19.64	12.53	2606	0.0089	70				0.67	0.00	18.34	0.00	0.12	0.00		0.02	5028.94	5026.50		
	MH#7#24	60.00	246	19.64	12.53	2606	0.0089	143				1.27	0.00	19.54	0.00	0.12	0.00		0.12	5030.08	5028.64		
																			1.27	5030.56	5028.50		
	MH#23	60.00	246	19.64	12.53	2606	0.0089	135				1.20	0.00	19.54	0.00	0.12	0.00		0.12	5030.28	5028.64		
																			1.20	5032.28	5029.84		
	MH#22	60.00	246	19.64	12.53	2606	0.0089	110				0.98	0.00	19.64	0.00	0.12	0.00		0.12	5032.40	5029.87		
																			0.98	5033.36	5030.95		
	MH#19	60.00	246	19.64	12.53	2606	0.0089	350				3.12	0.00	19.64	0.00	0.12	0.00		0.12	5033.99	5031.56		
																			3.12	5037.11	5034.67		
	MH#18	60.00	211	19.64	10.75	2506	0.0056	560				3.67	0.00	19.64	0.00	0.09	0.00		0.09	5037.20	5035.41		
																			3.67	5040.97	5038.17		
		60.00	211	19.64	10.75	2506	0.0056	0				0.00	0.00	19.64	0.00	0.09	0.00		0.09	5040.98	5038.17		
																			0.00	5040.96	5038.17		
	VISTA DEL NORTE DRIVE																						
	MH#12	48.00	60	12.57	4.77	1437.2	0.0017	243				0.42	0.00	12.57	0.00	0.01	0.00		0.01	5009.52	5009.17		
																			0.42	5009.56	5009.51		
	MH#13	48.00	49	12.57	3.90	1437.2	0.0012	108				0.13	0.00	12.57	0.00	0.01	0.00		0.01	5009.58	5009.72		
																			0.13	5010.06	5009.65		
	MH#14	48.00	41.5	12.57	3.33	1437.2	0.0004	188				0.06	0.00	12.57	0.00	0.01	0.00		0.01	5010.08	5009.97		
																			0.06	5010.26	5009.97		
	MH#15	48.00	34	12.57	2.71	1437.2	0.0005	135				0.07	0.00	12.57	0.00	0.01	0.00		0.07	5010.26	5010.14		
																			0.07	5010.33	5010.21		
	MH#16	36.00	19	4.91	3.87	410.33	0.0021	235				0.51	0.00	9.74	0.00	0.01	0.02		0.04	5010.36	5010.13		
																			0.51	5010.88	5010.64		
	MH#17	24.00	19	3.14	6.06	226.23	0.0070	0				0.00	0.00	10.03	0.00	0.03	0.07		0.10	5010.97	5010.40		
	VISTA DEL NORTE DRIVE																						
	MH#12																						



A circular professional engineer seal for the State of California. The outer ring contains the text "STATE OF CALIFORNIA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The inner circle contains the number "76413". A signature, "J. B. L. S.", is written across the seal.

[illegible]



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 29, 1999

APR 01 REC'D

Diane Hoelzer, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: *Drainage Report and Grading and Drainage Plan for Los Prados Del Norte Subdivision (D16/D8) Submitted for Preliminary Plat Approval and Grading Permit Approval, Engineer's Stamp Dated 3/5/99.*

Dear Ms Hoelzer:

Prior to approval of the above referenced plan for Preliminary Plat action, the following comments must be addressed:

1. This subdivision is part of the Vista Del Norte development. Please provide documentation from the Vista Del Norte master drainage plan to verify the allowable runoff rate from your site.
2. The master plan shows half of your site draining to the 60" storm drain on Vistu Monte Drive, then draining west on Bosque Drive, and the other half draining to the northwest corner of your site. Your plan shows the entire site draining to the northwest corner. Please demonstrate that the storm drains designed by the Vista Del Norte master plan can handle this change. Have the off-site storm drains been constructed?
3. The plan uses a 6' wide channel in the subdivision to convey street flows. If the streets are public, then the channel should be built to City standards (10' wide) for City maintenance.
4. With respect to the sump inlet calculations, please show the location of inlet # 4 on the storm drain layout (sheet 1 of 2). The grading plan must show that the proposed inlets don't conflict with the driveways.

It has been brought to my attention that approval from the State Engineer's Office has not yet been obtained for the construction of the ponds for the Vista Del Norte development. There are also geotechnical issues regarding the ponds which have not been addressed. Therefore, Final Plat approval cannot be granted for this subdivision, or any other subdivision within Vista Del Norte, until State Engineer's concurrence is obtained and the geotechnical issues have been resolved.

Diane Hoelzer, P.E.
page 2

March 29, 1999

Please provide a copy of the Infrastructure List for my file. If you have any questions regarding these comments, please call me at 924-3982.

Sincerely,



Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Fred Aguirre, DRB-98-241
James Domenick, Parsons Brinkerhoff, Inc.
Sundt Corporation
File